

What causes the seasons?

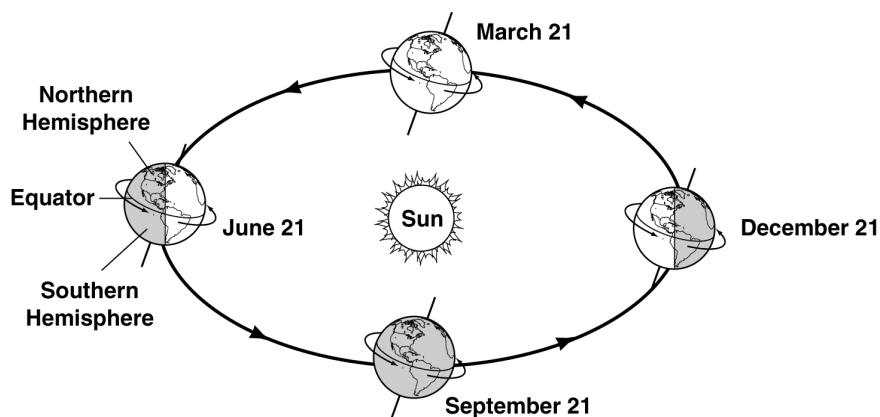
Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true.

- _____ 1. When the North Pole is tilted toward the sun, the Northern Hemisphere has fewer daylight hours.
- _____ 2. During winter, the combination of fewer daylight hours and less direct rays of the sun causes lower temperatures.
- _____ 3. When a hemisphere is tilted away from the sun, it has summer.
- _____ 4. The seasons are caused by Earth's distance from the sun.
- _____ 5. The sun's rays strike at a low angle during the summer.
- _____ 6. It is winter for the hemisphere tilted toward the sun.
- _____ 7. The seasons in the Northern Hemisphere and the Southern Hemisphere are the same.

Skill Challenge

Use the diagram to answer the following questions in complete sentences.



1. Does Earth revolve around the sun in a clockwise or counterclockwise direction as viewed from above?

- 2a. What season begins in the Northern Hemisphere on December 21 or 22? _____

- b. What season begins in the Southern Hemisphere on December 21 or 22? _____

- 3a. What season begins in the Northern Hemisphere on March 20 or 21? _____

- b. What season begins in the Southern Hemisphere on March 20 or 21? _____

4. Does the Northern Hemisphere have more daylight hours on December 21 or June 21? _____

Name _____ Date _____ Period _____

What are the solstices and equinoxes?

Lesson Review

Answer the following questions. Write your answers in the spaces provided in complete sentences.

1. What is a solstice? _____

2. What is an equinox? _____

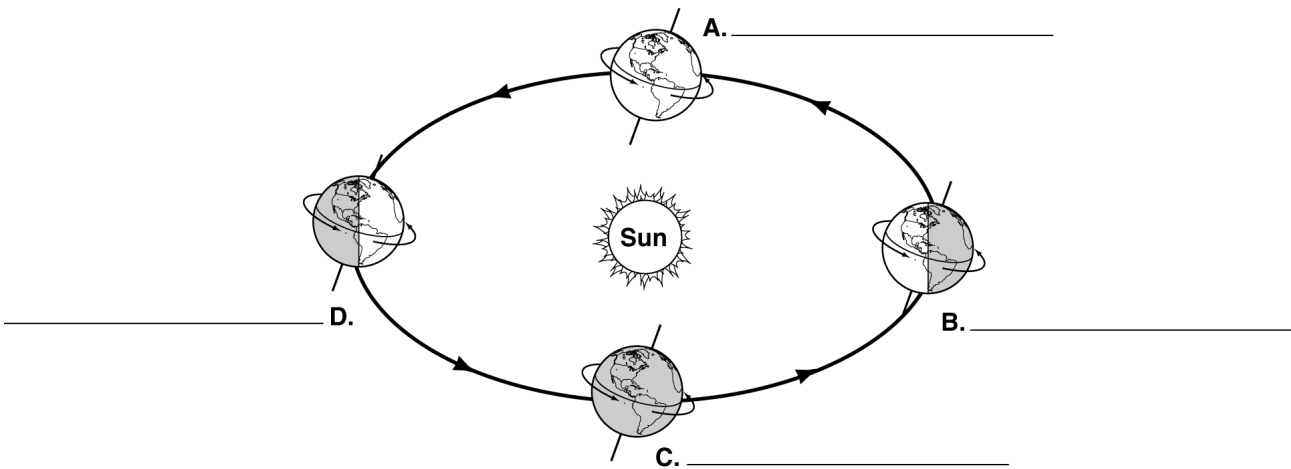
3. When does the summer solstice occur in the Northern Hemisphere? _____

4. About how many hours of daylight does each hemisphere receive on March 20/21? _____

5. The vernal equinox indicates the beginning of what season? _____

Skill Challenge

Use the diagram to complete the following.



6. The diagram shows Earth's position in its orbit at the beginning of each season. Write the date for each position of Earth in the spaces provided. Then, answer the questions in complete sentences.
7. What season begins in the Northern Hemisphere when Earth is at point A? _____

8. What season begins in the Northern Hemisphere when Earth is at point B? _____

9. At which point is Earth when the summer solstice occurs for the Northern Hemisphere? _____

10. At which point is Earth when the autumnal equinox occurs for the Northern Hemisphere? _____
